

\* CORRECTED \*

# SPILLWAY DWR

CA-CDF-000114

## INCIDENT ACTION PLAN



### OPERATIONAL PERIOD

2/18/2017 0600

to

2/19/2017 0600

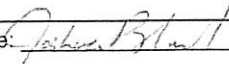




## INCIDENT OBJECTIVES (ICS 202)

<b>1. Incident Name:</b> SPILLWAY DWR	<b>2. Operational Period:</b> <table style="width: 100%; border: none;"> <tr> <td style="border: none;">Date From:</td> <td style="border: none;">2/18/2017</td> <td style="border: none;">Date To:</td> <td style="border: none;">2/19/2017</td> </tr> <tr> <td style="border: none;">Time From:</td> <td style="border: none;">0600</td> <td style="border: none;">Time To:</td> <td style="border: none;">0600</td> </tr> </table>	Date From:	2/18/2017	Date To:	2/19/2017	Time From:	0600	Time To:	0600							
Date From:	2/18/2017	Date To:	2/19/2017													
Time From:	0600	Time To:	0600													
<b>3. Objective(s):</b>  1. Provide for the protection of the public health and welfare, and for the safety of all first responders. 2. Maintain the integrity of Oroville Dam. 3. Continue to monitor and assess the damage to the Lake Oroville Spillway. 4. Ensure coordinated, timely, and accurate release of public information to all stakeholders: public, responding agencies and all agencies affiliated with the Department of Water Resources. 5. Maintain the operational availability of the Hyatt Power Plant. 6. Maintain the integrity and operational availability of the Thermalito Diversion Dam.  <b><u>Control Objectives:</u></b>  1. Continue work to repair emergency spillway. 2. Validate readiness and implementation of mitigation measures. 3. Apply flood mitigation measures to protect the Hyatt Powerhouse. 4. Coordinate airspace within TFR.  <b><u>General Situational Awareness:</u></b>  <div style="height: 150px; border: 1px solid black;"></div>																
<b>5. Site Safety Plan Required?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																
<b>Approved Site Safety Plan(s) Located at:</b>																
<b>6. Incident Action Plan</b> <table style="width: 100%; border: none;"> <tr> <td style="border: none;">X ICS 203</td> <td style="border: none;">X ICS 208</td> <td style="border: none;">X Weather Forecast</td> </tr> <tr> <td style="border: none;">X ICS 204</td> <td style="border: none;">X ICS 220</td> <td style="border: none;">X Security Memo</td> </tr> <tr> <td style="border: none;">X ICS 205</td> <td style="border: none;">X ICS 214</td> <td style="border: none;">X Facilities Map</td> </tr> <tr> <td style="border: none;">X ICS 205A</td> <td style="border: none;">X ICS 215A</td> <td style="border: none;">X ICP Map</td> </tr> <tr> <td style="border: none;">X ICS 206</td> <td colspan="2" style="border: none;">X Finance Message</td> </tr> </table>		X ICS 203	X ICS 208	X Weather Forecast	X ICS 204	X ICS 220	X Security Memo	X ICS 205	X ICS 214	X Facilities Map	X ICS 205A	X ICS 215A	X ICP Map	X ICS 206	X Finance Message	
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X ICS 205A	X ICS 215A	X ICP Map														
X ICS 206	X Finance Message															
<b>7. Prepared By:</b> Gabe Garcia      Position/Title: PSC (T)      Signature:																
<b>8. Approved by Incident Commander:</b> Signature:																
ICS 202	Date/Time      2/17/17 18:00															

## ORGANIZATION ASSIGNMENT LIST (ICS 203)

<b>1. Incident Name:</b> SPILLWAY DWR		<b>2. Operational Period:</b> Date From: 2/18/2017 Date To: 2/19/2017 Time From: 0600 Time To: 0600	
<b>3. Incident Commander(s) and Command Staff:</b>		<b>7. Operation Section:</b>	
IC/UC's	Kevin Lawson / Pat Whitlock / Kory Honea / Barry Biermann (T)	Chief	N. Truax / J. Berringer / G. Heart
Deputy	Justin McGough (T)	Deputy	J. Ohs
Safety Officer	David Sargenti / Mike Parreira	Night Ops	G. Casario / N. Smith
Information Officer	Mike Smith / Chris Orrock	Staging Area	
Liaison Officer	Dennis Carreiro / Matt Murray	Branch	Director:
LE Liaison Officer	John McCammon / Bill Boyes	Division/Group	A C. Buttler A.M. / M. Miller A.M. / P. Ghassemi P.M. / J. Bacher P.M.
<b>4. Agency/Organization Representatives:</b>		Division/Group	Z D. Ramsour A.M. / J. Personeni P.M.
Agency/Organization	Name	Division/Group	X E. Elliot A.M. / J. Sanner P.M.
Butte County OES	Cindy Dunsmoor	Division/Group	Power Line L. Enriquez A.M.
CalFire/Butte Co. Fire	Russ Fowler	Branch	Director:
OES Fire	Corey Zander	Division/Group	
Oroville P.D.	Allen Byers / Rob Buckhout	Division/Group	
CHP	Marc Stokes	Division/Group	
Yuba City F.D.	Pete Daley	Division/Group	
PG & E	Pam Perdue	Division/Group	
Army Corp of Engineers	Tyler Stalker	Branch	Director:
Oroville Hospital	Cooper Cunningham	Division/Group	
CAL Trans	Kirk Hemstalk	Division/Group	
State Parks	Aaron Wright	Division/Group	
California Fish & Wildlife	Carol Oz	Division/Group	
CCC	Jeremy Edwards	Division/Group	
FERC	Frank Blackett	Branch	Director:
Red Cross	Dave Willoughby	Division/Group	
<b>5. Planning Section:</b>		Division/Group	
Chief	Buddy Bloxham / Mark Hafner	Division/Group	
Deputy	Jeff Dapper (T)	Division/Group	
Resource Unit	Joshua Black / Alfred Macias	Division/Group	
Situation Unit	Todd Tuggle / Kevin Robinson	Branch	Director:
Documentation Unit	Alyssa Stutz	Division/Group	
Demobilization Unit	Steve DeBenedet	Division/Group	
GIS Specialist	Chris Ingram	Division/Group	
Technical Specialist	Rob Scott / Matt Seybert	Division/Group	
<b>6. Logistics Section</b>		<b>Air Operations Branch</b>	
Chief	Geoff Pemberton / Wendy Underhill	Division/Group	Director: Matt Stanford
Deputy	Milford Ferguson		Shem Hawkins
Support Branch Director	Ken Dunn		
Facilities Unit	Rich Tovar	<b>8. Finance/Administration Section:</b>	
Ground Support Unit	Steve Langston / Chuck Saiz	Chief	Terry Eastwood / Jessica Roles
Hired Equipment Tech	Andy Whitlock	Deputy	Mara Zaver
Communications Unit	Kyle Johnson / Wendy Underhill	Time Unit	Patrick Aguada / Karen Cawthon
Medical Unit	Kris Yeary / Barbara Hollbrook	Procurement Unit	Jack Franklin / Deanna Butler
Food Unit	Wendy Underhill	Comp/Claims Unit	Matthew Boone / Anna Guevara
Motel Unit	Randy Diaz / Jerry Fernandez	Cost Unit	Lynne Esparza
<b>Prepared By: Name:</b> Joshua Black		<b>Signature:</b> 	
ICS 203	Date/Time:	2/17/2017 22:00	





## Spillway DWR Weather Forecast



FORECAST NO: 2

NAME OF INCIDENT: Spillway DWR

PREDICTION FOR: 0600 Sat - 0600 Sun  
SHIFT DATE: Saturday Feb 18, 2017

UNIT: CA-BTU

SIGNED:

TIME AND DATE

FORECAST ISSUED: 1900 2/17/17

Incident Meteorologist

Jason Clapp - Cell 530-383-4839

**Weather Discussion:** Mostly cloudy with isolated to scattered light showers today with snow levels around 5000-5500 feet as the low pressure area weakens and moves over central to southern CA. Fairly light winds should have no impact on helo operations.

### WEATHER FORECAST for Today:

	Lake Oroville	Feather River Basin (2000-5000 ft)
Weather	Mostly cloudy with isolated to scattered showers	Mostly cloudy with isolated to scattered showers
Highs	54 – 57	40 – 50
20 ft Winds	E 4-6 mph gusting to 9 mph After 1100, SSE 6-9 mph gusting 15 mph After 1700, ESE 5-9 mph	
500 ft Winds	E 5-10 mph gusting to 15 mph After 1100, ENE 7-12 mph gusting 15-20 mph After 1700, ESE 5-8 mph gusting to 12 mph	
24 hr Precip	< 0.25 inches	< 0.3 inches
Snow Level	5000-5500 ft	

**WEATHER FORECAST for Sunday:** Calm before the storm with increasing cloudiness throughout the day with light showers beginning in the afternoon. Total precipitation 0.25-0.75 inches (most amounts later in the day over the Basin). Snow levels decreasing to 4500-5000 ft early Sunday behind storm, then climbing overnight. Dam high temperatures 53-56 and lows in 45-50 at Dam. SE winds 5-10 mph with afternoon gusts to 15 mph. Overnight winds ENE 4-8 mph.

**OUTLOOK for Sunday Night through Tuesday:** *Impacts – Significant heavy rain with limited runoff due to lower snow levels than during original spillway issue. Strong SE winds may limit aviation flying time.* Significant wet period with two waves and strong southerly winds. Precipitation totals are 2 - 4 inches at the Dam and 5 - 9 inches over the Basin. Dam high temperatures mid 50s and lows in upper 40s to lower 50s.

Snow levels: 5000-5500 feet into Monday morning, climbing toward 6000 feet by midday Monday, and then falling to 4000-5000 feet Tuesday. SE winds 10 mph with gusts 15 mph Sunday night increasing S winds 15-25 mph gusting to 35-40 mph Monday morning and continuing throughout the day. Speeds slightly weaken on Tuesday.

**OUTLOOK for Wednesday – Friday:** *Impacts – Gusty NE wind speeds generating waves toward Dam and flying concerns for aviation.* Drying begins as high pressure builds into the area. NW winds Wednesday will likely turn NE Thursday and Friday as the strongest NE winds of 8-12 mph gusting to 20 mph at the Dam during the morning hours.

# 10-Day Feather Basin Quantitative Precipitation Forecast (QPF)

Friday, February 17, 2017

(each day ends at 0400 PST)

Day No.	Date		Precip	Snow Level	Average Daily*		
			(inches)	(feet)	Precip (inches)	Snow Depth (inches)	Min Temp (F)
	Wednesday, February 08, 2017		1.8	7,000			
	Thursday, February 09, 2017		2.8	7,500			
	Friday, February 10, 2017		3.4	6,500			
	Saturday, February 11, 2017		0.4	5,000			
	Sunday, February 12, 2017		0.0	5,000			
	Monday, February 13, 2017	Actual	0.0	8,500			
	Tuesday, February 14, 2017		0.0	8,500			
	Wednesday, February 15, 2017		0.0	9,500			
	Thursday, February 16, 2017		0.1	8,500			
	Friday, February 17, 2017		0.9	5,000	0.23	2.1	26.4
	Total observed:		9.4				
1	Saturday, February 18, 2017	Forecast	1.2	4,500	0.23	2.0	26.4
2	Sunday, February 19, 2017		0.3	4,500	0.23	2.0	26.6
3	Monday, February 20, 2017		1.4	4,500	0.23	1.9	26.7
4	Tuesday, February 21, 2017		3.2	5,000	0.23	1.9	26.8
5	Wednesday, February 22, 2017		1.1	3,500	0.23	1.8	26.9
6	Thursday, February 23, 2017		0.2	2,000	0.23	1.8	27.0
7	Friday, February 24, 2017		0.0	1,500	0.23	1.7	27.1
8	Saturday, February 25, 2017		0.0	1,500	0.23	1.7	27.2
9	Sunday, February 26, 2017		0.0	1,500	0.23	1.6	27.3
10	Monday, February 27, 2017		0.0	1,500	0.23	1.6	27.4
	Tuesday, February 28, 2017		0.0	1,500	0.23	1.5	27.5
10-Day Total:			7.4		2.30		
10-Day Percent of Normal:			322%				
Accumulated Observed Precip for WY 2017:			74.2	(WY 2016: 63.0)			

## Comments:

Widespread, light to heavy precipitation is returning to the Feather Basin. A new series of storms, bringing periods of rain and snow, are forecasted to last into next week. Overall, the QPF has slightly decreased since yesterday, especially for early next week. Significant snowfall accumulation is expected in the Sierra. Strong, gusty winds are likely at times. A large degree of uncertainty exists for next week's forecast. The next update of this forecast will be about Saturday, February 18, 2017, unless there are significant hydrologic changes.

## Links:

QPF from the CNRFC:	<a href="http://www.cnrfc.noaa.gov/awipsProducts/RNOHD6RSA.php">http://www.cnrfc.noaa.gov/awipsProducts/RNOHD6RSA.php</a>
7-Day Temp Forecast from the CNRFC:	<a href="http://www.cnrfc.noaa.gov/awipsProducts/RNOHFSFTA.php">http://www.cnrfc.noaa.gov/awipsProducts/RNOHFSFTA.php</a>
7-Day Temp Forecast from NWS, Reno:	<a href="http://www.wr.noaa.gov/cnrfc/versprod.php?pil=SFT&amp;sid=REV&amp;version=0">http://www.wr.noaa.gov/cnrfc/versprod.php?pil=SFT&amp;sid=REV&amp;version=0</a>
7-Day Temp Forecast from NWS, Medford:	<a href="http://www.wr.noaa.gov/cnrfc/versprod.php?pil=SFT&amp;sid=MFR&amp;version=0">http://www.wr.noaa.gov/cnrfc/versprod.php?pil=SFT&amp;sid=MFR&amp;version=0</a>
7-Day Temp Forecast from NWS, Sac:	<a href="http://www.wr.noaa.gov/cnrfc/versprod.php?pil=SFT&amp;sid=STO&amp;version=0">http://www.wr.noaa.gov/cnrfc/versprod.php?pil=SFT&amp;sid=STO&amp;version=0</a>
6 - 10 Day Forecast from CPC:	<a href="http://www.cpc.ncep.noaa.gov/products/predictions/610day/">http://www.cpc.ncep.noaa.gov/products/predictions/610day/</a>
8 - 14 Day Forecast from CPC:	<a href="http://www.cpc.ncep.noaa.gov/products/predictions/814day/">http://www.cpc.ncep.noaa.gov/products/predictions/814day/</a>
14-Day Precip Forecast from COLA:	<a href="http://wxmaps.org/cix/prec1.html">http://wxmaps.org/cix/prec1.html</a>
14-Day Temp Forecast from COLA:	<a href="http://wxmaps.org/cix/temp1.html">http://wxmaps.org/cix/temp1.html</a>
Monthly Temp & Precip Outlooks from CPC:	<a href="http://www.cpc.ncep.noaa.gov/products/predictions/multi_season/13_seasonal_outlooks/color/churchill.php">http://www.cpc.ncep.noaa.gov/products/predictions/multi_season/13_seasonal_outlooks/color/churchill.php</a>
1 Month Forecast from CPC:	<a href="http://www.cpc.noaa.gov/products/predictions/30day/index.php">http://www.cpc.noaa.gov/products/predictions/30day/index.php</a>

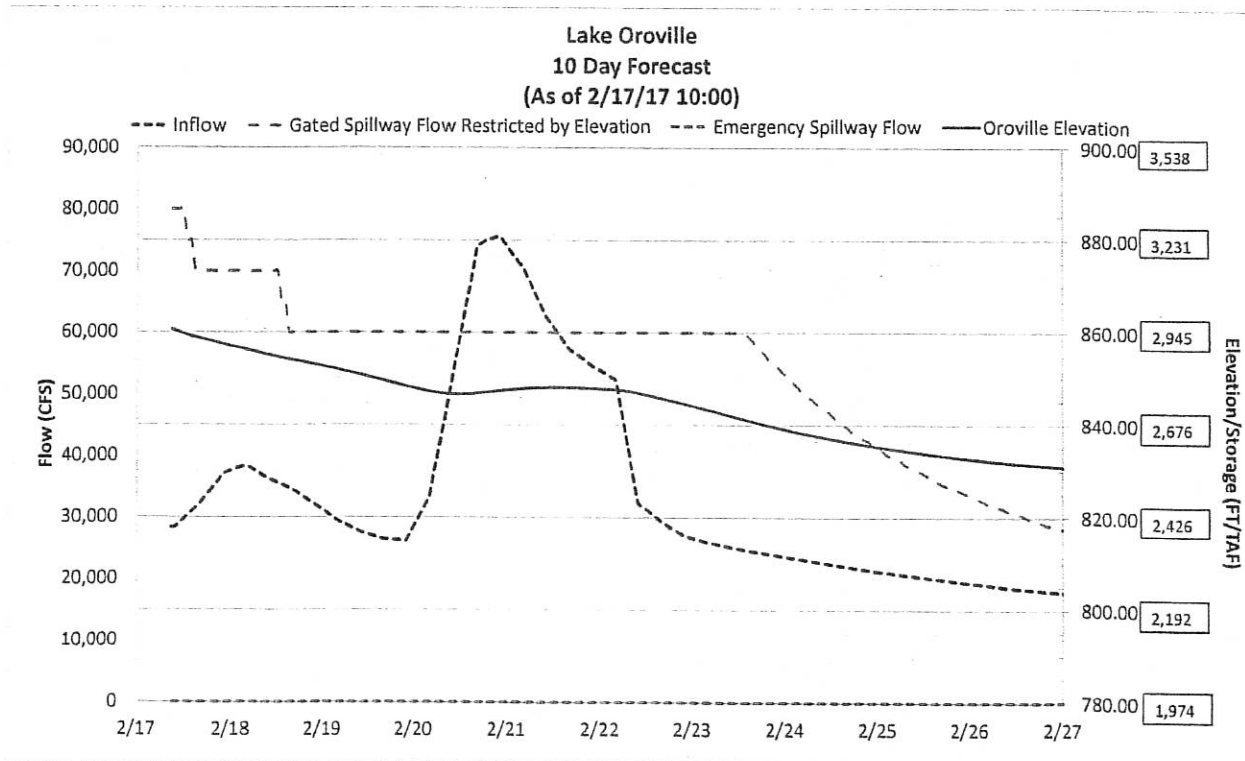
\* Avg daily values (40 - 50 years) from Quincy, elev 3,400 ft; 30-day running average. Mean annual precip approx 40" (vs. 45" for Feather Basin)

## Water Operations Update Related to the Oroville Spillway Emergency

Incident Number: 2017-02-07 Incident Type: Liner Damage Incident Severity:  Status: Active Maintaining Office: DWR O&M	Operational Area OFD Latitude:  Storage (TAF): 2,948 (10:00) Vacant Space (TAF): 605 (10:00) Inflow (cfs): 32,000 (10:00) Gated Spillway Flow (cfs): 80,000 (10:00) Tailrace Elevation (ft) 253.43 (10:00) OCO Contact: POC 916-574-1960	SWP Facility: Oroville Spillway Longitude:  Elevation (ft): 860.27 (10:00) Encroachment (TAF): 160 (10:00) Total to Feather River (cfs): 93,000 (10:00) Hyatt Flow (cfs): 0 (10:00) Emergency Spillway Flow (cfs): 0 (10:00)
Field Division Contact: OFD ACC 530-534-2418		

Most Recent Activity:  
Feather River releases will be adjusted as needed.

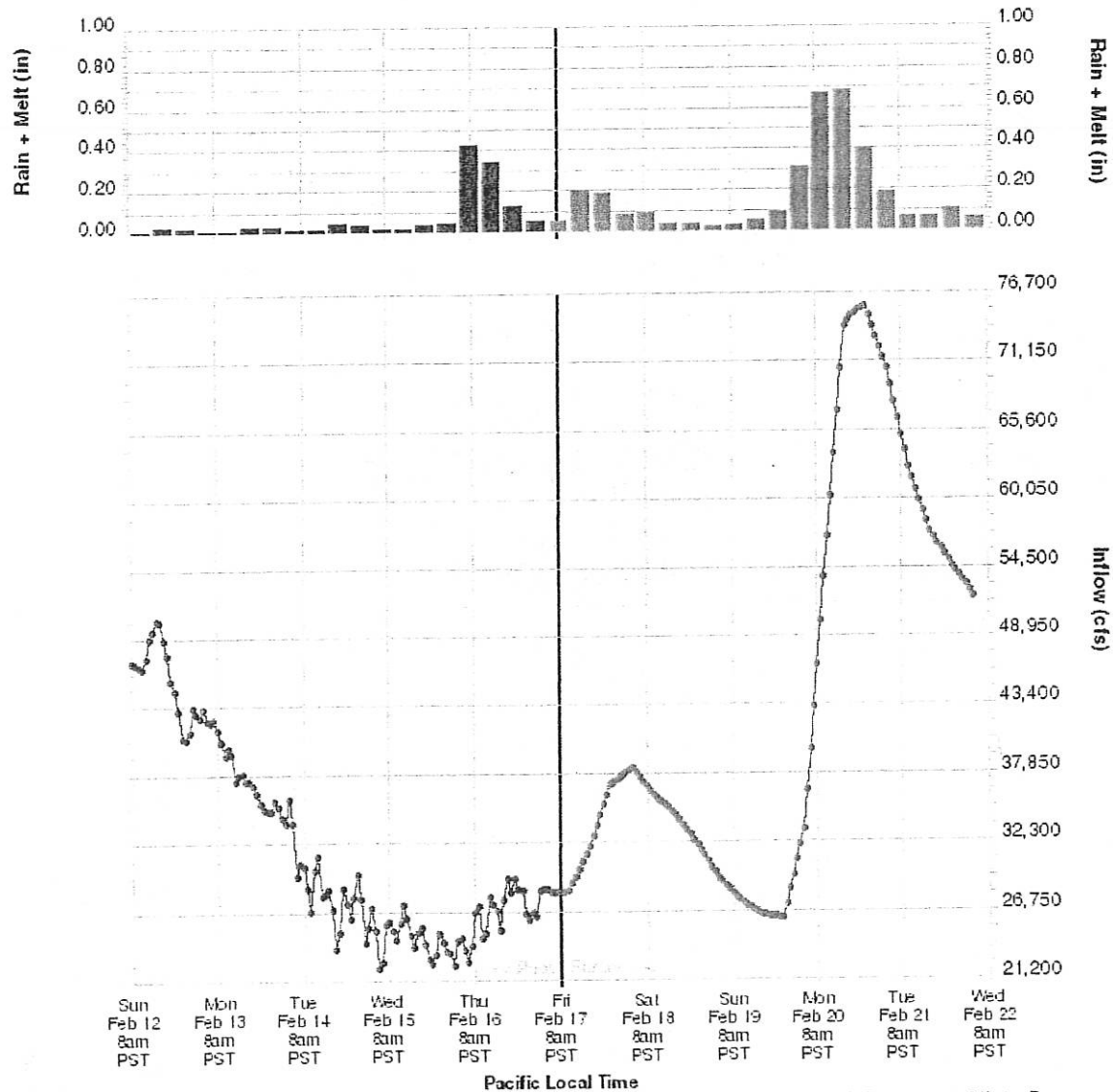
### Lake Oroville Storage and Elevation Projection



## Weather Forecast

	Quantitative Precipitation Forecast (inches)						Freezing Level (1000 ft)					
	2/17	2/18	2/19	2/20	2/21	2/22	2/17	2/18	2/19	2/20	2/21	2/22
Feather River Basin Average	1.3	0.3	1.4	3.2	1.2	0.2	5.7	5.3	5.5	6.1	4.5	3.2

## Inflow Forecast



Observed • Forecast • Guidance •  
 Created: 02/17/2017 at 8:55 AM PST (ORDCI Forecast Run Time = 1625Z)

California Department of Water Resources  
 NOAA / NWS / California Nevada River Forecast Center

- 1-day inflow volume increased by 3 TAF
- 2-day inflow volume increased by 5 TAF
- 3-day inflow volume increased by 10 TAF
- 4-day inflow volume increased by 21 TAF
- 5-day inflow volume increased by 35 TAF



## CAL FIRE INCIDENT MANAGEMENT TEAM 3



<b>SAFETY MESSAGE</b>	1. INCIDENT NAME: <b>SPILLWAY</b>	2. DATE PREPARED: February 17, 2017	3. TIME PREPARED: 17:00
	4. PREPARED BY: Michael Parreira	5. LEADER NAME: David Sargenti SOF1	6. OPERATIONAL PERIOD: 2/18/2017 0600 TO 2/19/2017 0600

# SAFETY MESSAGE

### SITUATIONAL AWARENESS

The perception of environmental elements with respect to time or space.

- Rain slick roads are throughout the incident, slow down when driving.
- Make sure everyone gets a briefing!
- Review the emergency signaling plan with your crews.
- Be aware of the changing weather and road conditions.
- SLOW DOWN! Drive with CARE!
- Know your Muster Points and review them with your crews.
- Be aware of changing road conditions due to the increase heavy equipment traffic.
- Make sure to wear the appropriate PPE for the current and predicted weather.

*Be Safety minded not  
safety blinded!*

### EMERGENCY SIGNALING

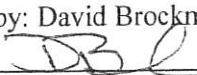
- 1 QUICK BLAST = STOP WORK
- 2 QUICK BLASTS = CONTINUE WORK
- 3 QUICK BLASTS = EVACUATE AREA
- 1 LONG BLAST = MEDICAL





## INCIDENT RISK ANALYSIS ICS 215A



Branch	HAZARDOUS ACTIONS / CONDITIONS	MITIGATIONS/WARNINGS/REMEDIES
ALL	MUSTER POINT	<ul style="list-style-type: none"><li>Know your MUSTER point.</li><li>ICP to Lake Oroville Event Center (5131 Royal Oaks Dr.)</li><li>Div. A – Upper Overlook</li><li>Div. Z – Upper Overlook</li><li>Div. X – Silver Dollar Fair Grounds (2357 Fair St. Chico Ca.)</li></ul>
ALL	DRIVING HAZARDS	<ul style="list-style-type: none"><li><b>Watch your speeds.</b></li><li>Drive defensively! Expect the unexpected.</li><li>Watch for local traffic and congestion.</li><li>Watch for pot holes forming due to heavy equipment traffic.</li></ul>
ALL	WEATHER	<ul style="list-style-type: none"><li>Review your lightning plan.</li><li>Watch for changing weather conditions.</li><li>Allow extra time to arrive at your destination.</li><li>Be cautious of slick roadways.</li><li>Have appropriate PPE for the rain.</li></ul>
ALL	PERSONAL SAFETY	<ul style="list-style-type: none"><li>All personnel are responsible for their personal safety.</li><li>Immediately report any suspicious activity.</li><li>Be sure to wear all needed or required safety equipment.</li></ul>
ALL	HYDRATION	<ul style="list-style-type: none"><li>Drink water before, during and after each shift.</li></ul>
ALL	WATER HAZARD	<ul style="list-style-type: none"><li>Be alert when working near or around moving water.</li><li>Wear appropriate PPE when near water.</li><li>Post look outs as needed.</li></ul>
ALL	FATIGUE	<ul style="list-style-type: none"><li>Be alert for signs of fatigue and take breaks as necessary.</li><li>Monitor incoming resources for level of fatigue.</li></ul>
ALL	LOCAL RESIDENTS	<ul style="list-style-type: none"><li>Watch for returning residents.</li><li>Evacuation order lowered to a “Evacuation Warning”.</li><li>Watch for residents in and around work sites.</li></ul>
ALL	COMMUNICATIONS	<ul style="list-style-type: none"><li>Check the communication plan for changes.</li><li>Be clear and concise when talking on the radio.</li><li>Use human repeaters as needed.</li></ul>
ALL	BRIEFINGS	<ul style="list-style-type: none"><li>Make sure <b>everyone</b> gets a briefing on the plan for the day.</li><li>Document on your ICS 214.</li><li>Brief your crews on the Emergency Signaling Plan.</li></ul>
ALL	LCES	<ul style="list-style-type: none"><li>Ensure that LCES is being utilized.</li></ul>
ALL	HELICOPTER AWARENESS	<ul style="list-style-type: none"><li>Be aware of rotor wash when working near helicopters.</li><li>Keep eyes open for overhead loads.</li><li>Stay clear of helicopter landing zones.</li><li>Monitor assigned aircraft frequencies.</li><li>Watch for falling debris from loads.</li></ul>
ALL	HEAVY EQUIPMENT	<ul style="list-style-type: none"><li><b>Watch out for heavy equipment traffic!!</b></li><li>Be aware of heavy equipment working in the area.</li><li>Be watchful around heavy equipment, they may not see you.</li></ul>
Incident Name: Spillway		<div>Date Prepared: 2/17/2017 Prepared by: David Brockman </div> <div>Operational Period: 2/18/2017 - 2/19/2017 0600 - 0600</div>



# Department of Water Resources

## Oroville Field Division

### SECURITY MESSAGE

Employees and Contractors must be mindful that information used on a daily basis should be considered *SENSITIVE*. Certain actions are Prohibited.

- Assigned personnel *SHALL NOT* take unauthorized photos or video at Oroville Field Division (OFD)
- All work related photos, documents, drawings, or video, etc. are for Departmental use only and will remain the property of the Department of Water Resources
- Photos or video of critical infrastructure, sensitive areas, or information are not to be captured on personal cell phones, cameras, or other personal devices

*THE SHARING OF SENSITIVE OFD INFORMATION ON SOCIAL MEDIA SITES IS FORBIDDEN.*

Source Document: OFD Security Memo No. 1

## ASSIGNMENT LIST (ICS 204)

1. Incident Name: Spillway DWR		2. Operational Period: Date From: 02/18/17 Date To: 02/19/17 Time From: 0600 Time To: 0600		3.  Branch:  Division:  Group:  Staging Area:	
4. Operations Personnel:  Operations Section Chief: Day: N. Traux / J. Berringer / G. Heart* Night: G. Casario / N. Smith* Division/Group Supervisor: C. Buttler* A.M. / M. Miller* A.M. J Bacher* P.M. / P. Ghassemi* P.M.				A Page 1 of 2	
5. Resources Assigned:				Reporting Location, Special Equipment and Supplies, Remarks, Notes, Information	
Resource Identifier	Leader	# of Person	Contact (e.g., phone, pager, radio frequency, etc.)		
Excavator				DP 1 @ 0600	
Excavator				DP 1 @ 0600	
Excavator				DP 1 @ 0600	
Excavator				DP 1 @ 0600	
Excavator				DP 1 @ 0600	
Excavator				DP 1 @ 0600	
Excavator				DP 1 @ 0600	
Excavator				DP 1 @ 0600	
30 CY Heavy Dump				DP 1 @ 0600	
30 CY Heavy Dump				DP 1 @ 0600	
30 CY Heavy Dump				DP 1 @ 0600	
30 CY Heavy Dump				DP 1 @ 0600	
30 CY Heavy Dump				DP 1 @ 0600	
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30 CY Heavy Dump				DP 1 @ 0600	
30 CY Heavy Dump				DP 1 @ 0600	
Grader				DP 1 @ 0600	
Loader				DP 1 @ 0600	
Loader				DP 1 @ 1800	
Loader				DP 1 @ 0600	
Dragline				DP 1 @ 0600	
6. Work Assignments: Stage rock and sand for erosion repair on auxiliary spillway. Continue with and access pads for land equipment to dredge tailrace spoils.  *Denotes a 12 hour resource.					
7. Special Instructions:  Monitors with a safety officer will be moving in and out of divisions and will notify division supervisors.					
8. Communications (radio and/or phone contact numbers needed for this assignment): Name / Function Primary Contact: indicate cell, pager, or radio (frequency/system/channel) / / / SEE COMMUNICATIONS PLAN (ICS 205 pages 16-17) / /					
9. Prepared by: Name: Joshua Black Position/Title: RESL Signature: [Signature] ICS 204 Date/Time: 02/17/17 2200					

## ASSIGNMENT LIST (ICS 204)

[illegible]

## ASSIGNMENT LIST (ICS 204)

[illegible]

## ASSIGNMENT LIST (ICS 204)

[illegible]

## ASSIGNMENT LIST (ICS 204)

[illegible]



AIR OPERATIONS SUMMARY

OPERATIONAL PERIOD DATE: 2/18/17

START: 0733 END: 1711

SUNRISE: 0703 SUNSET: 1741

1. INCIDENT NAME: Spillway DWR		2. PREPARED BY: Matt Stanford		PREPARED DATE/TIME: 2/17/17 / 1600		3. # OF COPIES NEEDED:	
4. REMARKS (Safety Notes, Hazards, Air Operations Special Equipment, etc.):						5. TFR:	
TFR may not be staffed with aerial supervision. Make blind calls at 7 and 12 miles prior to entering the TFR						Center: Polygon	
						Latitude: See FAA website for	
						Longitude: current TFR	
GPS settings: hddd°mm.mmm' with WGS 84 selected as the map datum.						Radius:	
						Altitude: From the surface up to and including 4500 feet MSL	

6. PERSONNEL				7. FREQUENCIES				8. FIXED WING			
	Phone		AIR/AIR FW:	AM	FM		# Avail / Type/ Make-Model / FAA N# / Base(s)				
AOBD: Matt Stanford	951-545-8205		AIR/AIR FW:	124.775	151.2950	AIRTANKERS					
ASGS: Shem Hawkins	530-990-5128		AIR/AIR RW:	124.775		LEADPLANES					
			AIR BRIEFING								
ATGS:			AIR/GROUND TACTICAL	CDF T18 159.3450		AIR TACTICAL PLATFORMS					
HEBM: Chris Vatcher	530-895-6505		DECK:			TFR Freqs.	124.775				
			TOLC:								
HLCO:			COMMAND:	See IAP for command							
Dispatch Aircraft Desk			Air Guard	168.625 Tone 1		PILOT MAP:					

1-5

9. HELICOPTERS (Use Additional Sheets as Necessary)													
FAA N#	TY	MAKE/MODEL	BASE	AVAIL	START	REMARKS	FAA N#	TY	MAKE/MODEL	BASE	AVAIL	START	REMARKS
Copter 205	2	UH1H	Chico	0900	0900	Hoist							
Enloe Flt	3	Astar	Chico			24 hrs EMS							
CHP H20	3	Astar	Auburn			Day Hoist EMS							

10. TASK/MISSION/ASSIGNMENT (Use ICS-220a if additional space needed; Type/Function includes: Air Tactical, Retardant, Recon, Personnel Transport, Water Dropping, etc.)					
TYPE/FUNCTION	NAME OF PERSONNEL OR CARGO (if applicable) OR INSTRUCTIONS FOR TACTICAL AIRCRAFT		MISSION START	FLY FROM	FLY TO
Recon					
Water Drops/Retard.					
Personnel Transport					
Logistics					

INCIDENT RADIO COMMUNICATIONS PLAN				Incident Name		Spillway DWR		Date/Time Prepared		Operational Period Date/Time	
Ch #	Function	Channel Name/Trunked Radio System Talkgroup	Assignment	RX Freq	N or W	RX Tone/NAC	TX Freq	N or W	Tx Tone/NAC	Mode A, D or M	Remarks
1	Command	CDF CMD 7	All Divisions	151.4600 N		103.5 (8)	159.3900 N		123.0 (2)	A	TONE 2
2	Command	BTU LOCAL	BTU	151.4000 N		110.9 (1)	159.3750 N			A	BTU LOCAL TONE 10
3	Command	BTU SUPP	BTU	154.4150 N		123.0 (2)	159.0000 N			A	BTU SUPPORT
4	DWR CMD	BLOOMER	DWR	159.2350 N		141.3 (13)	151.2550 N		141.3 (13)	A	DWR CMD FREQUENCY
5	Tactical	CDF TAC 27	Unassigned	159.3075 N		192.8 (16)	159.3075 N		192.8 (16)	A	
6	Tactical	CDF TAC 28	Unassigned	151.1825 N		192.8 (16)	151.1825 N		192.8 (16)	A	
7	Tactical	CALCORD	All Divisions	156.0750 N		156.7 (6)	156.0750 N		156.7 (6)	A	EMS ON INCIDENT
8	DWR TAC	C-C 235	DWR	151.2350 N		141.3 (13)	151.2350 N		141.3 (13)	A	DWR TAC FREQUENCY
9	DWR TAC	HORSE	DWR	159.2400 N		141.3 (13)	151.2050 N		107.2 (10)	A	DWR TAC FREQUENCY
10											
11											
12											
13											
14	Air To Ground	CDF TAC 18	All Divisions	159.3450 N		192.8 (16)	159.3450 N		192.8 (16)	A	
15											
16	Emergency	Air Guard	All Branches	168.6250 N			168.6250 N		110.9 (1)	A	EMERGENCIES ONLY
17											
18											
19											
20	Emergency	Air Guard	All Branches	168.6250 N			168.6250 N		110.9 (1)	A	EMERGENCIES ONLY
Prepared By (Communications Unit)						Incident Location					
KYLE JOHNSON - COML TEAM 3						Oroville Dam					

The convention calls for frequency lists to show four digits after the decimal place, followed by either an "N" or a "W", depending on whether the frequency is narrow or wide band. Mode refers to either "A" or "D" indicating analog or digital (e.g. Project 25) or "M" indicating mixed mode. All channels are shown as if programmed in a control station, mobile or portable radio. Repeater and base stations must be programmed with the Rx and Tx reversed.

INCIDENT RADIO COMMUNICATIONS PLAN				Incident Name		Spillway DWR		Date/Time Prepared		2/17/2017 1100		Operational Period Date/Time		2/18/2017 0600-0600	
Ch #	Function	Channel Name/Trunked Radio System Talkgroup	Assignment	RX Freq	N or W	RX Tone/NAC	TX Freq	N or W	TX Tone/NAC	Mode A, D or M	Remarks				
1	DWR CMD	BLOOMER	DWR	159.2550 N		141.3	151.2350 N		141.3	A	DWR COMMAND - KD9257				
2															
3															
4	DWR OPS	CMD C-C 235	DWR	151.2350 N		141.3	151.2350 N		141.3	A	DWR TACTICAL - KD9257				
5															
6	DWR TAC	HORSE	DWR	151.2050 N		107.2	159.2400 N		141.3	A	DWR TACTICAL - KD9257				
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
Prepared By (Communications Unit)												Incident Location			
Wendy Underhill, LOGS												Oroville Dam			

The convention calls for frequency lists to show four digits after the decimal place, followed by either an "N" or a "W", depending on whether the frequency is narrow or wide band. Mode refers to either "A" or "D" indicating analog or digital (e.g. Project 25) or "M" indicating mixed mode. All channels are shown as if programmed in a control station, mobile or portable radio. Repeater and base stations must be programmed with the Rx and Tx reversed.



## COMMUNICATIONS LIST (ICS 205A)

<b>1. Incident Name:</b> Spillway DWR		<b>2. Operational Period:</b> Date From: 2/18/17 Date To: 2/19/17 Time From: 0600 Time To: 0600	
<b>3. Basic Local Communications Information: Department of Water Resources</b>			
Incident Assigned Position		Name	Method(s) of Contact
INCIDENT COMMANDER - DAY		Pat Whitlock	530-990-4300
INCIDENT COMMANDER - NIGHT		Bruce Jones	530-712-7386
INCIDENT COMMANDER - NIGHT		Doug Mcelvain	661-333-4104
INCIDENT COMMAND SUPPORT - DAY		Joel Ledesma	916-849-4779
INCIDENT COMMAND SUPPORT - NIGHT		Behzad Soltanzadeh	916-425-4815
SECURITY OFFICER - DAY		Roger Baker	530-990-1775
SECURITY OFFICER - NIGHT		Curtis Green	909-809-7117
SAFETY OFFICER - DAY		Mike Parreira	559-836-2959
LIAISON OFFICER - DAY		Matt Murray	530-321-6035
ENVIRONMENTAL COORDINATION - DAY		Eric See	530-900-8804
PUBLIC INFORMATION OFFICER - DAY/NIGHT		Chris Orrock	916-690-5498
PUBLIC INFORMATION OFFICER - DAY		Kevin Dossey	530-521-3503
PUBLIC INFORMATION OFFICER - NIGHT		Lauren Hersh	916-849-9022
PUBLIC INFORMATION OFFICER - DAY		Maryanne Ciaraglia	916-425-0899
PUBLIC INFORMATION OFFICER - NIGHT		Reyna Reys	916-494-1421
DEPUTY OPERATIONS SECTION CHIEF - DAY		Bill Cochran	530-538-4748
OPERATIONS SECTION CHIEF - DAY		Tom Cobarrubia	916-502-3060
OPERATIONS SECTION CHIEF - DAY		John Berringer	916-952-9376
OPERATIONS SECTION CHIEF - NIGHT		Seth Lawrence	530-840-0253
STAGING AREA MANAGER - DAY		John Personeni	916-539-7726
FLOATING DEBRIS REMOVAL STRIKE TEAM - DAY		Ed Elliott	530-520-4582
CONTINGENCY PLANNING - DAY		Tony Meyers	916-919-7171
CONTINGENCY PLANNING - DAY		Dave Rennie	916-698-5056
DAM SURVEILLANCE GROUP - DAY		Ryan Cooper	916-712-9247
PLANNING SECTION CHIEF - DAY		Mark Hafner	530-401-8564
PLANNING SECTION CHIEF - NIGHT		Phil LeCocq	916-402-7273
PLANNING SECTION CHIEF - NIGHT		Andrew Steward	530-534-2341
RESOURCE UNIT LEADER - DAY		Ravi Sharma	916-709-7756
SITUATION UNIT LEADER - DAY		Kevin Robinson	916-642-3115
SITUATION UNIT LEADER - DAY		Ryan MacTarnaghan	916-801-6050
DOCUMENTATION UNIT LEADER - DAY		Alyssa Stutz	530-592-9832
DOCUMENTATION UNIT LEADER - NIGHT		Scott Kennedy	530-524-4164
LOGISTICS SECTION CHIEF - DAY		Wendy Underhill	530-448-7247
LOGISTICS SECTION CHIEF - NIGHT		Richard Jones	661-400-0321
SUPPORT BRANCH DIRECTOR - DAY		Ken Dunn	530-521-8487
<b>4. Prepared by:</b> Name: <u>WENDY UNDERHILL</u> Position/Title: <u>LOGS</u> Signature: _____			
ICS 205A		Date/Time: <u>2/17/17 1045</u>	<u>Wendy Underhill</u>

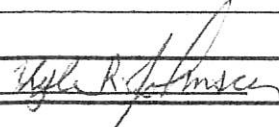


## COMMUNICATIONS LIST (ICS 205A)

[illegible]



## COMMUNICATIONS LIST (ICS 205A)

<b>1. Incident Name:</b> Spillway DWR		<b>2. Operational Period:</b> Date From: 2/18/17 Date To: 2/19/17 Time From: 0600 Time To: 0600	
<b>3. Basic Local Communications Information: CALFIRE IMT #3</b>			
Incident Assigned Position	Name	Method of Contact	
INCIDENT COMMANDER	KEVIN LAWSON	(619) 892-1195	
INCIDENT COMMANDER	BARRY BIERMANN	(707) 529-9689	
INCIDENT COMMANDER	JUSTIN MCGOUGH (T)	(951) 840-8155	
OPERATIONS SECTION CHIEF	NICK TRUAX	(530) 448-2405	
OPERATIONS SECTION CHIEF	JEFF OHS	(909) 214-8083	
OPERATIONS BRANCH DIR	SEAN NORMAN	(530) 864-5903	
OPERATIONS BRANCH DIR	CHRIS WATERS	(559) 281-4308	
OPERATIONS BRANCH DIR	GEORGE CASARIO (T)	(714) 469-3420	
SAFETY OFFICER	DAVID SARGENTI	(831) 596-4724	
SAFETY OFFICER	DAVID BROCKMAN	(530) 682-2522	
LIASON OFFICER	DENNIS CARREIRO	(831) 594-8612	
LIASON OFFICER	MIKE MARTIN	(408) 472-1614	
PUBLIC INFO OFFICER	MIKE SMITH	(951) 232-4049	
PUBLIC INFO OFFICER	LUCAS SPELMAN	(951) 347-3034	
PUBLIC INFO OFFICER	DAN OLSON	(951) 837-1615	
PUBLIC INFO OFFICER	JOSH JANSSEN	(951) 830-8120	
PUBLIC INFO OFFICER	RICHARD CORDOVA	(951) 337-3673	
LAW ENFORCEMENT LIASON	BILL BOYES	(530) 604-5985	
AIR OPS BRANCH DIRECTOR	MATT STANFORD	(951) 545-8205	
AIR SUPPORT GROUP SUP	SHEM HAWKINS	(530) 990-5128	
FIRE BEHAVIOR ANALYST	GEOFF MARSHALL	(559) 901-2581	
GIS	CHRIS INGRAM	(510) 427-2671	
TRAINING TECH/SPEC	ROB SCOTT	(949) 292-3207	
TRAINING TECH/SPEC	MATT SEYBERT	(714) 875-4040	
PLANS SECTION CHIEF	BUDDY BLOXHAM	(831) 236-5659	
SITUATION UNIT LEADER	TODD TUGGLE	(559) 760-3879	
SITUATION UNIT LEADER	JOSH BLACK (T)	(619) 609-3413	
SITUATION UNIT LEADER	GABE GARCIA	(916) 300-2170	
RESOURCE UNIT LEADER	LEONEL PLATA	(559) 246-9225	
RESOURCE UNIT LEADER	JEFF DAPPER (T)	(909) 286-6450	
DEMOB UNIT LEADER	STEVE DEBENEDET	(530) 708-2792	
<b>4. Prepared by:</b> Name: <u>KYLE JOHNSON</u> Position/Title: <u>COML</u> Signature: 			
ICS 205A		Date/Time: <u>2/17/17 1200</u>	



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**MEDICAL PLAN**

1. INCIDENT NAME

**SPILLWAY DWR  
CA-CDF-000114**2. DATE  
PREPARED

2/17/17

3. TIME  
PREPARED1400  
HOURS

4. OPERATIONAL PERIOD

2/18/17  
0600-0600

## 5. INCIDENT MEDICAL AID STATIONS

MEDICAL AID STATIONS	LOCATION	PARAMEDICS	
		YES	NO
DWR OPERATIONS CENTER	460 GLEN DR OROVILLE, CA 95966		XX

## 6. TRANSPORTATION

## A. Air Ambulances

NAME	ADDRESS	PHONE	PARAMEDICS	
			YES	NO
Enloe FlightCare	1531 Esplanade Chico, CA 95926	911	XX	

## B. Ground Ambulances

Butte County EMS - Oroville	1531 Esplanade Chico, CA 95926	911	XX	

## 7. HOSPITALS

NAME	ADDRESS	TRAVEL TIME		PHONE	HELIPAD		BURN CENTER	
		AIR	GRND		YES	NO	YES	NO
Oroville Hospital	2767 Olive Hwy Oroville, CA	2 min	8 min	530-533-8500	XX			XX
Orchard Hospital	240 Spruce St Gridley, CA	15 min	30 min	530-846-9000		XX		XX
Enloe Medical Center – Trauma	1531 Esplanade Chico, CA	15 min	36 min	530-332-7300	XX			XX
U. C. Davis Hospital	2315 STOCKTON BLVD, SACRAMENTO, CA	45 min	1.5 hrs	916-734-2011	XX		XX	

## 8. MEDICAL EMERGENCY PROCEDURES

**INJURY REPORTING PROCEDURES**

NATURE OF INJURY \_\_\_\_\_

LOCATION OF PATIENT \_\_\_\_\_

TRANSPORTATION REQUESTED BY: AIR \_\_\_ GROUND \_\_\_

POINT OF PICKUP \_\_\_\_\_

LAT \_\_\_\_\_ LONG \_\_\_\_\_

PATIENT UNIT ID \_\_\_\_\_  
REMINDER: DO NOT GIVE PT NAME OVER RADIO

AGE \_\_\_\_\_

SEX: MALE \_\_\_ FEMALE \_\_\_

**ALL EMERGENCIES---Secure the area and identify witnesses for later investigation. Keep an accurate log of events.**Bill Collins  
Medical Unit (209) 704-0564**LINE EMERGENCY:** Crew Supervisor to contact Division Supervisor with patient complaint/condition and location.

- Division Supervisor contacts:
  - 911
  - ACC – Area Control Center - (530) 534-2499
- ACC contacts.
  - Medical Unit
  - Safety Officer
  - Operations
- Notify Safety Officer, Day or Night OPS
- Safety or OPS will respond and run the incident as necessary

**BASE EMERGENCY:** Contact 911. Notify the Medical Unit with patient complaint/condition and location. Medical Staff will respond to stabilize incident.

ICS 206 8-78

9. PREPARED BY (MEDICAL UNIT LEADER)  
Bill Collins, MEDL *Bill Collins*10. REVIEWED BY (SAFETY OFFICER)  
Mike Parreira, SOFR *Mike Parreira*



## PUBLIC INFORMATION SECTION

Incident Information Line: (530)-538-7826

Incident Media Line: (530) 268-5869

### STATUS

**Incident Start Date:** 02/07/2017

**Incident Start Time:** 2:00 PM

**Incident Type:** Northern Winter Storms

**Description:** Damage to the Oroville Spillway

**Incident Location:** Oroville Dam, Canyon Dr. & Oroville Dam Rd, Oroville, CA 95966

**MEDIA** – The California State Penal Code Section 409.5(d) allows the news media to enter scenes of disaster, riot or civil disturbance. Properly identified members of the news media should not be restricted from entering locations specified within the code. However, this does not include crime scenes, private property and does not imply that the news media may interfere with incident operations while they are in the areas of concern. You can get further information about Penal Code Section 409.5(d) at

<http://www.leginfo.ca.gov/cgi-bin/displaycode?section=pen&group=00001-01000&file=403-420.1>

**PHOTOGRAPHS AND VIDEOS OF INCIDENT** – We are in a new era of media. Media no longer means news/broadcast industry, but now refers to anyone that has the capability to shoot video, photographs and post them onto social media sites in a matter of minutes. Unfortunately, we have seen some instances of photographs or videos that have depicted unsafe, unprofessional or embarrassing circumstances which are a serious breach of ethics. When this happens, it reflects poorly on all that are attached to this incident. Posting an inappropriate video, photo or blog comment could expose oneself to unwanted ramifications. It may be unsafe to shoot photos or video and a firefighter who is concentrating on a camera loses their situational awareness.

The Public Information Office would like copies of the video and pictures that you safely took while not in an emergency situation, fire suppression activity or in an overhead assignment. Bring your video and pictures to the Public Information trailer; they will be reviewed and possibly uploaded to our many CAL FIRE social media sites. Remember, we don't want photographs or videos that depict unsafe, unprofessional or embarrassing circumstances, which are a serious breach of ethics. You can also send your photographs and videos to the following email "[Richard.Cordova@fire.ca.gov](mailto:Richard.Cordova@fire.ca.gov)".

**LOST AND FOUND** – The Information Section will manage lost and found items for the incident. If you have lost an item please leave your contact information and what you have lost at the Information Section. If you have found an item on the incident, bring the item to the Information Section with your contact information as well.

## **Finance Message**

**2/18/2017**

**DWR staff needs to complete their DWR 208 time sheets daily and ICS-214 Activity Logs weekly and submit in the black box in the lobby.**

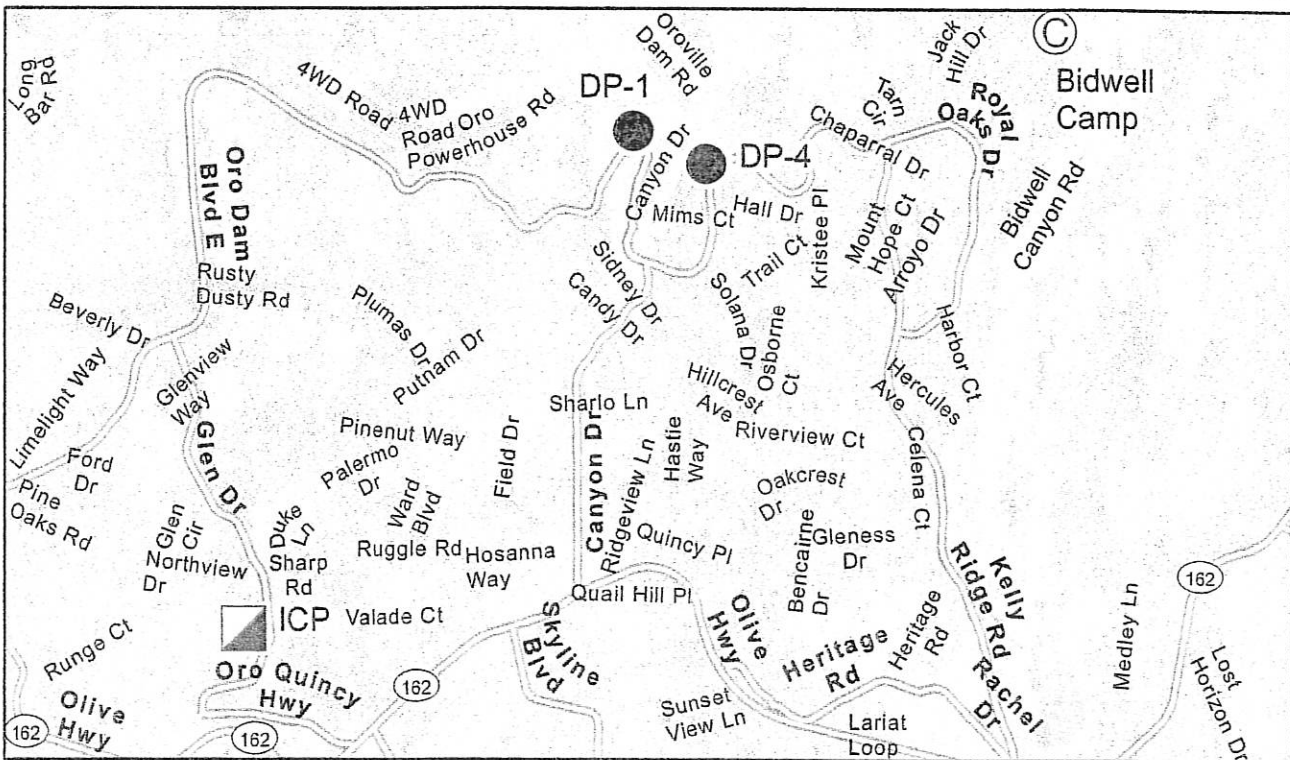
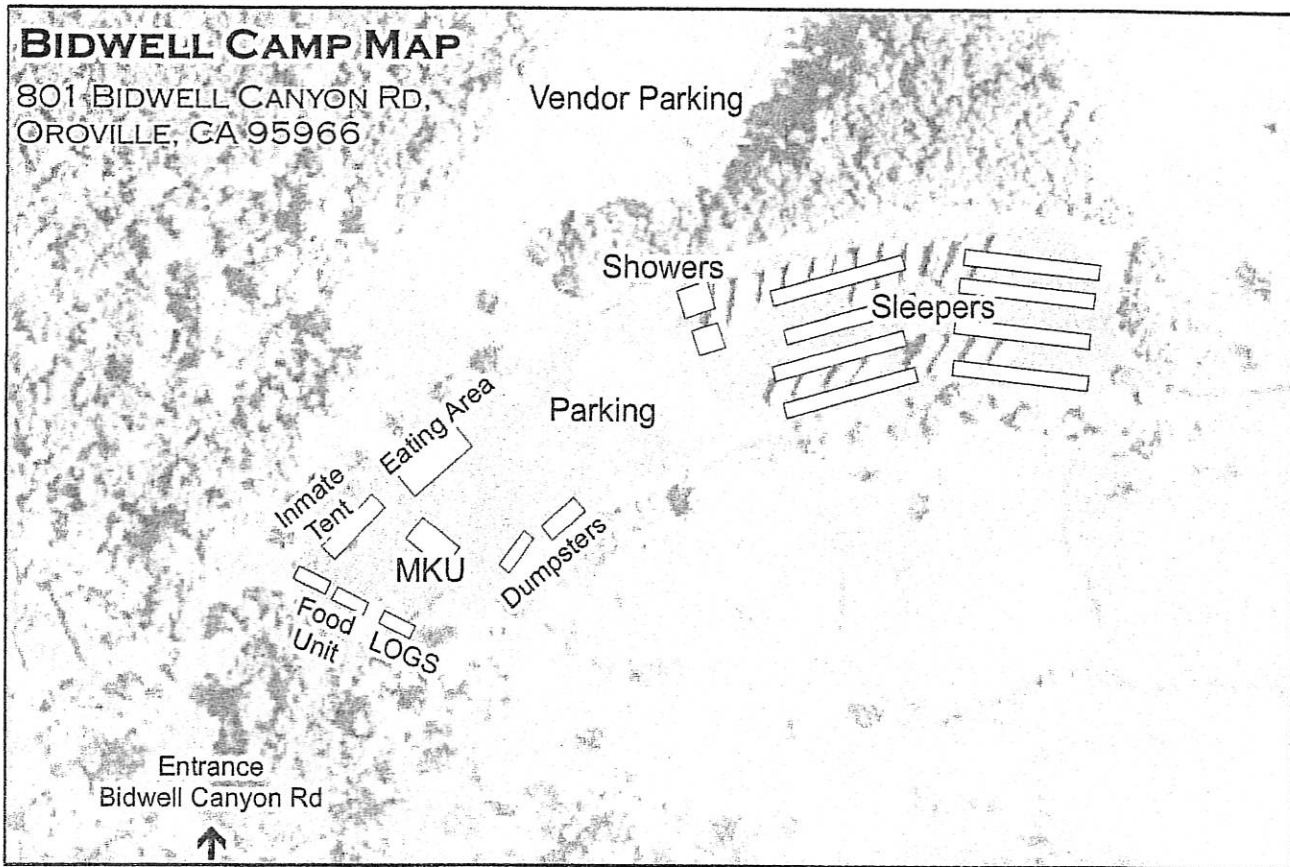
**CAL FIRE - Continue to check in with the time Unit to update your FC33's**

**DWR staff with hotel rates over \$90 requires an approved "Excess Lodging Rate Request/Approval STD 255c" attached to their travel expense claim. A supply of forms are available at the Admin Building lobby counter. These forms require your Division Chief approval. Please submit all requests to Jessica Roles. She will insure they get to the appropriate Division Chief for approval**

**Jessica Roles, FSC**

# BIDWELL CAMP MAP

801 BIDWELL CANYON RD,  
OROVILLE, CA 95966



Directions from ICP to Bidwell Camp:

Turn right onto Glen Dr, Turn left onto Oroville-Quincy Hwy  
Turn left onto CA-162 E, Turn left onto Kelly Ridge Rd  
Turn right onto Arroyo Dr, Turn left onto Bidwell Canyon  
Take to the end of the road.



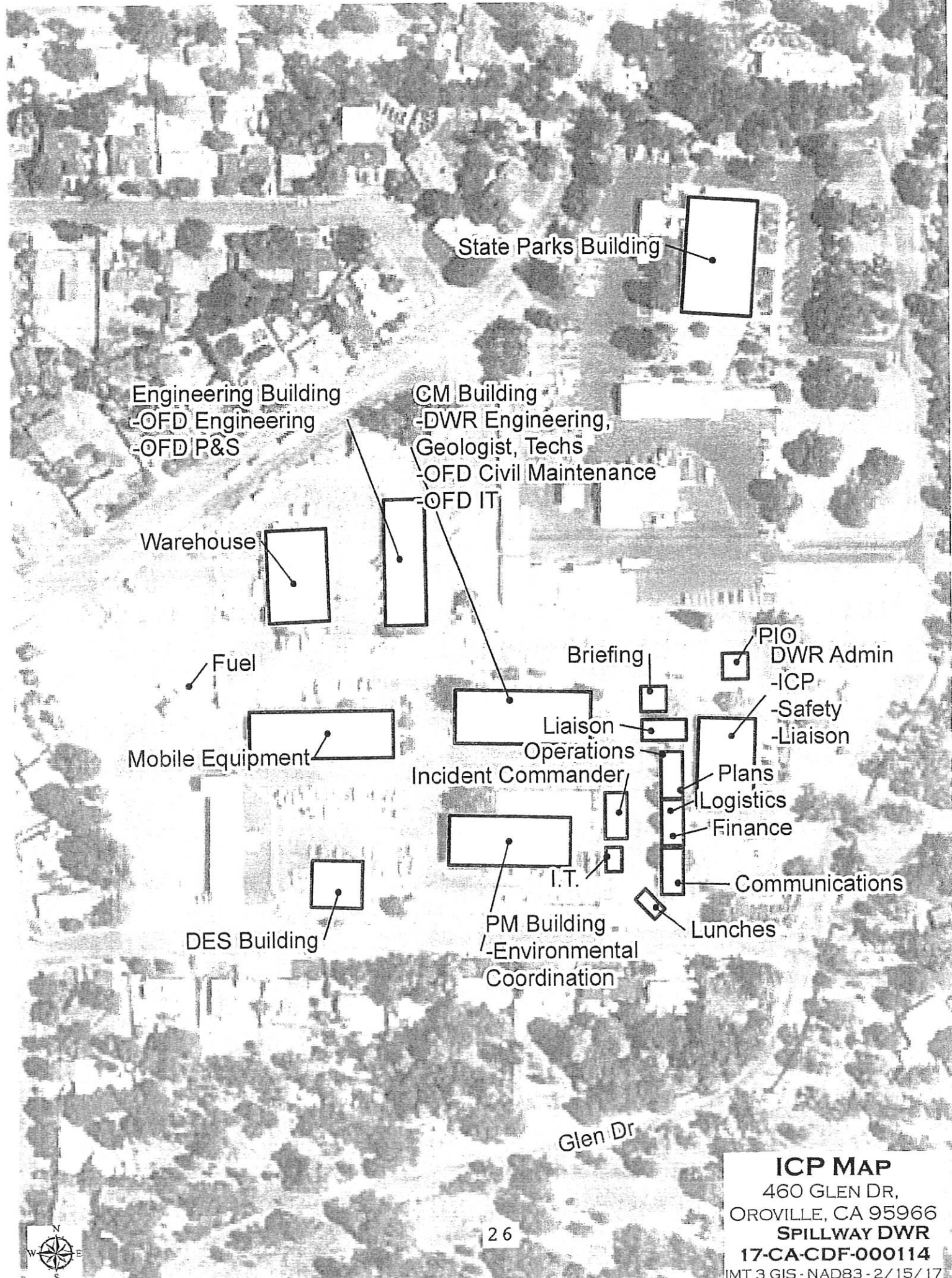
## TRAVEL MAP

SPILLWAY DWR

17-CA-CDF-000114

IMT 3 GIS - NAD83 - 2/13/17





State Parks Building

Engineering Building  
-OFD Engineering  
-OFD P&S

CM Building  
-DWR Engineering,  
Geologist, Techs  
-OFD Civil Maintenance  
-OFD IT

Warehouse

Fuel

Mobile Equipment

Briefing

PIO  
DWR Admin  
-ICP  
-Safety  
-Liaison

Incident Commander

Liaison  
Operations

Plans  
Logistics  
Finance

Communications

Lunches

DES Building

PM Building  
-Environmental  
Coordination

Glen Dr

### ICP MAP

460 GLEN DR,  
OROVILLE, CA 95966  
**SPILLWAY DWR**  
**17-CA-CDF-000114**



## ACTIVITY LOG (ICS 214)

[illegible]

## ACTIVITY LOG (ICS 214)

[illegible]